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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number 10/750,475

Filing Date 12-31-2003

First Named Inventor Alavattam et al.

Art Unit 1653

Examiner Name Gargi, Rey May Attorney Docket Number 13447

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MV	A1	^{US-} 3,773,919	11-20-1973	Boswell et al.	
ille	A2	^{US-} 3,887,699	06-03-1975	Yolles	
Ma	АЗ	US- 4,293,339	10-06-1981	Supcoe et al.	
M	A4	^{US-} 4,675,189	06-23-1987	Kent et al.	
1/4/	A5	^{US-} 5,700,486	12-23-1997	Canal et al.	
das	A6	^{US-} 5,759,583	06-02-1998	Iwamoto et al.	
ille	A7	^{US-} 5,981,719	11-09-1999	Woiszwillo et al.	
W	A8	^{US-} 5,985,309	11-16-1999	Edwards et al.	
ap	A 9	^{US-} 6,120,787	09-19-2000	Gustafsson et al.	
M	A10	^{US-} 6,238,705	05-29-2001	Liu et al.	
M	A11	^{US-} 6,294,202	09-25-2001	Burns et al.	
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		FORE	IGN PATENT DOCL			
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Ι.
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Mu	A14	EP 0 950 663 A1	10-20-1999	Okano et al.		
(A)la/	A15	WO 02/28370 A1	04-11-2002	Jonsson et al.		F
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INF	ORMATION	DIS	CLOSURE	Filing Date	12-31-2003	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Alavattam et al.	
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Sheet	2	of	6	Attorney Docket Number	13447	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
M	B1	AUSTIN et al.; The Controlled Release of Leukaemia Inhibitory Factor (LIF) From Aliginate Gels; Pro Intern Symp Control Rel Bioact Mater; 23; 1996; pp 739-740	
M	B2	BRANNON-PEPPEAS et al.; Polyactic and Polyglycolic Acids as Drug Delivery Carriers; Handbook of Pharmaceutical Release Tech; 2000; pp 99-130; Marcel Dekker; New York	
M	В3	BURGESS et al.; Glucuronidase Activity Following Complex Coacervation & Spray Drying Micoencapsulation; J. Microencapsulation; 1998; Vol 15; No. 5; pp. 569-579	
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M	B 9	DE ROSA et al; Influence of Co-encapsulation of Different Non-Ionic Surfactants on the Properties of PLGA Insulin-Ioaded Microspheres; J Controlled Release 69 2000 pp 283-295	

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INF	ORMATION	N DIS	CLOSURE	Filing Date	12-31-2003	
STA	STATEMENT BY APPLICANT			First Named Inventor	Alavattam et al.	
	46			Art Unit	1653	
	(Use as many sheets as necessary)			Examiner Name	Gargi, Roy Wax	
Sheet	3	of	6	Attorney Docket Number	13447	

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MW	C1	GOMBOTZ et al.; Protein Release From Alginate Matrices; Advanced Drug Delivery Reviews; 31; 1998; pp 267-285; Elsevier	
Mw	C2	HUANG et al.; On The Importance & Mechanismsof Burst Release in Matrix-controlled Drug elivery Systems; J of Controlled Release; 73; 2001; pp 121-136; Elsevier	
MW	СЗ	JAIN et al.; Controlled Drug Delivery by Biodegradable Poly(Ester) Devices: Different Preparative Approaches; Drug Development & Industrial Pharmacy; 1998; Vol 24; pp 703-727	
My	C4	JIANG et al.; Stabilization & Controlled Release of Bovine Serum Albumin Encapsulated in Poly(D, L-lactide) and Poly(ethylene glycol) Microsphere Blends; Pharmaceutical	
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7 •		J Pharmaceutical Sciences; Vol 86; No 8; August, 1997; pp 891-895	
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Subsil	METER TOTAL 1448/PTO	•		Application Number	10/750,475		
INF	ORMATION	I DIS	CLOSURE	Filing Date	12-31-2003		
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Alavattam et al.		
(Use as many sheets as necessary)				Art Unit	1653		
				Examiner Name	Gargi, Roy Wax		
Sheet	4	of	6	Attorney Docket Number	13447 .		

F :	0.4-	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
##	D1	MORLOCK et at., Erythropoietin Loaded Microspheres Prepared From Biodegradable- LPLG POE LPLG Triblock Copolymers: Protein Stabilization and In-vitro Release Properties:	
,	•	J of Controlled Release, 56, 1998; pp 105-115; Elseview	
Mw	D2	PARK et al.; Poly(L-lactic acid) Pluronic Blends: Characterization of Phase Separation Behavior, Degradation and Morphology and Use as Protein-Releasing Matrices;	
7		Macromolecules; 1992; 25; pp 116-122; American Chemical Society	
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M	D4	PEAN et al.; Why Does PEG 400 Co-Encapsulation Improve NGF Stability & Release From PLGA Biodegradable Microspheres; Pharmaceutical Research; Vol 16; No 8; 1999; pp 1294-1299	
M	D5	PROKOP et al.; Water Soluble Polymers & Immunoisolation II: Evaluation of Multicomponent Microencapsulation Systems; Advances in Polymer Science; Vol 136; pp 53-73; 1998	
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INFORMATION DISCLOSURE			CLOSURE	Filing Date	12-31-2003	
STA	STATEMENT BY APPLICANT			First Named Inventor	Alavattam et al.	
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	(Use as many sheets as necessary)			Examiner Name	Gargi, Roy Wax	
Sheet	5	of	6	Attorney Docket Number	13447	

Examiner Initials* Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. SANCHEZ et al.; Formulation Strategies for Stabilization of Tetanus Toxoid in Poly (lactide-co-glycolide) Microspheres; Inter J of Pharmaceutics; 185; 1999 pp 255-266; Elsevier SANDOR et al.; Effect of Protein Molecular Weight on Release From Micro-Sized PLGA Micoospheres; J of Controlled Release; 76; 2001; pp 297-311; Elsevier SEZER et al.; Release Characteristics of Chitosan Treated Alginate Beads: I. Susteained Release of a Macromolecular Drug From Chitosan Treated Alginate Beads; J Microencapsulation; 1999; Vol 16; No 2; pp 195-203 Wan DE WEERT et al.; Protein Instability in Poly(Lactic-co-Glycolic Acid) Microparticles; Pharnaceutical Research; Vol 17; No 10; 2000; pp 1159-1167 WAKEMAN et al.; COncentration and Fractionation of Polyvinly Alcohol-anionic Surfactant Stabilised Latex Dispersions by Microfiltration; J Membrane Science; 106; 1995 pp 57-65	····			
Initials* No.1 the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. SANCHEZ et al.; Formulation Strategies for Stabilization of Tetanus Toxoid in Poly (lactide-co-glycolide) Microspheres; Inter J of Pharmaceutics; 185; 1999 pp 255-266; Elsevier SANDOR et al.; Effect of Protein Molecular Weight on Release From Micro-Sized PLGA Micoospheres; J of Controlled Release; 76; 2001; pp 297-311; Elsevier SEZER et al.; Release Characteristics of Chitosan Treated Alginate Beads: I. Susteained Release of a Macromolecular Drug From Chitosan Treated Alginate Beads; J Microencapsulation; 1999; Vol 16; No 2; pp 195-203 Van DE WEERT et al.; Protein Instability in Poly(Lactic-co-Glycolic Acid) Microparticles; Pharnaceutical Research; Vol 17; No 10; 2000; pp 1159-1167 WAKEMAN et al.; COncentration and Fractionation of Polyvinly Alcohol-anionic Surfactant				
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SANDOR et al., Effect of Protein Molecular Weight of Release Florif Micro-Sized PLGA Microospheres; J of Controlled Release; 76; 2001; pp 297-311; Elsevier SEZER et al.; Release Characteristics of Chitosan Treated Alginate Beads: I. Susteained Release of a Macromolecular Drug From Chitosan Treated Alginate Beads; J Microencapsulation; 1999; Vol 16; No 2; pp 195-203 Van DE WEERT et al.; Protein Instability in Poly(Lactic-co-Glycolic Acid) Microparticles; Pharnaceutical Research; Vol 17; No 10; 2000; pp 1159-1167 WAKEMAN et al.; Concentration and Fractionation of Polyvinly Alcohol-anionic Surfactant	Mw	E1		
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Van DE WEERT et al.; Protein Instability in Poly(Lactic-co-Glycolic Acid) Microparticles; Pharnaceutical Research; Vol 17; No 10; 2000; pp 1159-1167 WAKEMAN et al.; Concentration and Fractionation of Polyvinly Alcohol-anionic Surfactant	Mw	E3		
Microparticles; Pharnaceutical Research; Vol 17; No 10; 2000; pp 1159-1167 WAKEMAN et al.; COncentration and Fractionation of Polyvinly Alcohol-anionic Surfactant			J Microencapsulation; 1999; Vol 16; No 2; pp 195-203	
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	A	E5		
WANG et al.; A heterogenously Structured Composite Based on Poly(lactic-co-glycolic acid) Microspheres and Poly (vinyl alcohol) Hydrogel Nanoparticles for Long-Term Protein	M	E6	WANG et al.; A heterogenously Structured Composite Based on Poly(lactic-co-glycolic acid) Microspheres and Poly (vinyl alcohol) Hydrogel Nanoparticles for Long-Term Protein	
Drug Delivery; Pharmaceutical Research; Vol 16; No 9; 1999; pp 1430-1435			1 9 7	· .
WANG et al.; A Novel Approach to Stabilization of Protein Drugs in Poly(lactic-co-glycolic acid)microspheres Using Agarose Hydrogel; Inernational Journal of Pharmaceutics;	UN	E7	WANG et al.; A Novel Approach to Stabilization of Protein Drugs in Poly(lactic-co-glycolic acid)microspheres Using Agarose Hydrogel; Inernational Journal of Pharmaceutics;	
166; 1998; pp 1-14			166; 1998; pp 1-14	

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Substitute for form 1449/PTO	Complete If Known		
Substitute for form 14437 70	Application Number	10/750,475	
INFORMATION DISCLOSURE	Filing Date	12-31-2003	
STATEMENT BY APPLICANT	First Named Inventor	Alavattam et al.	
	Art Unit	1653	
(Use as many sheets as necessary)	Examiner Name	Gargi, Roy Wax	
Sheet 6 of 6	Attorney Docket Number	13447	

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M	F1	WHEATLEY et al.; Coated Alginate Microspheres: Factors Influencing the Controlled Deliery of Macromolecules; J of Applied Polymer Science; Vol 43; pp 2123-2135; 1991	
MW	F2	WOO et al.; Preparation adn Characterization of a Composite PLGA and Poly(Acrylol Hydroxyethyl Starch) Microsphere System for Protein Delivery; Pharmaceutical Research;	
		Vol 18; No. 11; November, 1002; pp 1600-1606	
Stal	F3 .	ZHU et al.; Stabilization of Proteins Encapsulated in Injectable Poly (lactide-co-glycolide); Nature Biotechnology; Vol. 18; January, 2000; pp. 52-57.	
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